### CENTRAL INTELLIGENCE AGENCY

# INFORMATION REPORT

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COUNTRY	China		REPORT NO.		25X1A
SUBJECT	Reconstruction of the Ts	sinan-Tsingtao	DATE DISTR.	11 May	1954
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<ol> <li>In May Chines</li> </ol>	and June 1949, to sid in e Communists reconstructed	the taking of t l the Tsinan - T	ne city of Tsingte Singtao Railway.	communist	
guerri	llas had removed one-half	of the width of	the roadbed and t	that half	
solid	be replaced with a great as the old half. Rail-lay	ing took about	one month to compl	Lete. At	
the ti	me of "liberation" of Tsin Wei River bridge (approxi	gtao, the work.	reached from Tsins	n as far	
munist	s came into full power, the	work extended	from both ends of	line but	
	gressed more rapidly from ready been mobilized in th				
worker	s were put to work on the	reconstruction	of the road. Rail	s, which	
	en hidden in the surroundi aken out of hiding and use				• 1
wood	were collected throughout t from Tsinan on the railw	Shantung. Stee	l work and coment	were	<b>*</b> *
opened	on 3 July 1949. All reco	onditioning, inc	luding the bridges	had been	
comple	ted before this date and has roughly done because the	ad taken only t	wo months. The re	construc-	
way ru	nning. A train could pass	over the roadb	ed at about 10 kil	Lometers	
per ho	ur. After 3 July the Chin y until it met Soviet stan	nese Communists	continued to impro	ove the	
		4	.*		
	ying of the roadbed was as llages, who were organized				
constr	uction section of the resp	ective hsien.	Skilled workers, v	rho had	
	usly reconstructed the Tie der appointed by the railw				
lay th	e rails. At first the con	struction teams	were short of su	plies;	
tnerei used a	ore, instead of four, which t joints in bridges. It t	n is standard, book three month	only two "rish" bo	erials.	
After	the improvements made duri	ing these three	months, the trains	could	
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travel at 30 kilometers per hour. In 1952 testing trains were brought from the Soviet Union to test the bridges. The Soviets found only one span on the Wei River bridge not up to standard. When this span had been reinforced, the speed of trains was upped to 50 kilometers per hour without any other improvements on the line.

- 3. Four major bridges on the Tsinan-Tsingtao line had to be reconstructed. They were over the Wen River (approximately N 36-36, E 119-18), the Wei River (approximately N 36-35, E 119-20), the Chiao River (approximately N 36-22, E 119-48), and the Taku River (approximately N 36-22, E 120-07). One repair team was assigned to each bridge, and each team was also responsible for the small bridges on either side of the larger bridges. The reconditioning of the three western bridges began before the fall of Tsingtao in June 1949, but the fourth bridge team was not organized until after the city had been captured.
- 4. The first step in restoring the bridges was to strengthen the buttresses with reinforced concrete. The surfaces of the bridges had steel plates, which were damaged by bombing. The damaged pieces were cut apart to use those sections that were undamaged. Later these repaired pieces were replaced by standard steel plates. The construction crews were able to salvage about 50 percent of the materials on each bridge and the remainder of the material was taken from the United States' stockpile at Hsuchow.
- 5. On June 1949, the railway administration officials had a conference in Tsingtao and decided that traffic should be able to pass over the line by 1 July. To accomplish this, a temporary bridge was to be put up over the Wei River because of the difficulties involved in repairing the permanent bridge. It took three days to survey the area for the temporary bridge and six days to construct the bridge, which was made from lumber taken from the old bridge and was two kilometers long. Five hundred civilian laborers from each of the three surrounding hsien, headed by the construction chief of the hsien government, were mobilized. A team was assigned to each section of the bridge; some teams finished in less than the six alloted days, but all the workers were paid for the full six days. Each laborer was given a chit showing that he had completed his work. He took the chit to his hsien and collected grain as payments.
- 6. At the head of each of the four bridge-repairing teams was a technical man, who was a Communist but not an engineer. There was also a temporary bridge team to build the temporary bridge over the Wei River until the more difficult permanent bridge could be built. The head of all the bridge teams was an engineer. His deputy, a Communist, took charge of personnel and supplies and acted as treasurer and accountant. The office staff consisted of government employees and temporary employees of the bridge teams, who later became permanent railway employees. The field staffs, made up of skilled workers, included woodworkers, masons, crans operators, riveters, painters, and miscellaneous workers. Each branch had a foreman who was not a Communist. Work on Wei River bridge at the peak of activities required 800 persons; the smallest bridge team had over 100 persons.
- 7. Not many Communist Party members were involved in the construction work. Only the deputy and the various low-level cadres in supply and personnel units were Communists, but the procedures were Communist directed. After the bridges were completed, the rating of the whole work began. The reconditioning took one month; the rating of the reconditioning took two months.
- 8. When the reconditioning of the line itself was completed, the reconditioning of the stations and the water towers was begun from Fangtzu to Tsingtao. These projects were let to contractors.

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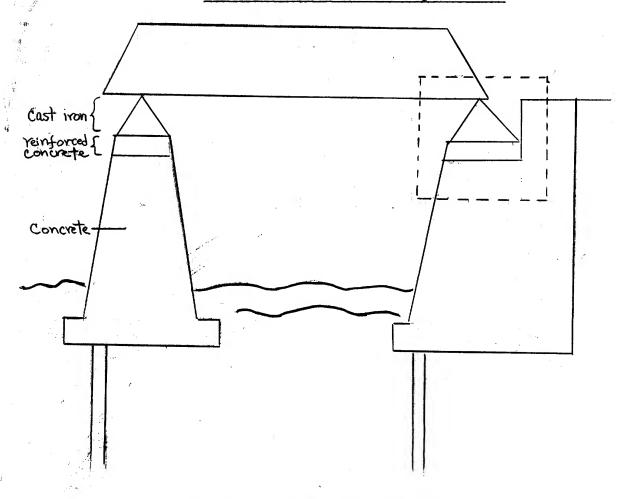
- 7. The construction of the bridges after they had passed the Soviet tests in 1952 was as follows:
  - a. The Wen River bridge had six or seven 30-meter spans. The piers were constructed of concrete. It was a deck bridge of plate girder type (d.p.g.), weight permitted was 5,000 pounds per foot of bridge (E-50), and was single tracked.
  - b. The Wei River bridge had six 30-meter spans, d.p.g., and two 40-meter spans of the through-truss type (t.w.t.). The old piers had been so damaged that completely new concrete ones had to be put in. The maximum weight was verified by the Russians at E-50 after one span failed to meet the first test and was subsequently strengthened. The spans of the bridge were in the following order counting from east to west: span 1, d.p.g.; spans 2-3, t.w.t.; and spans 4-8, d.p.g.
  - c. The Chiao River bridge had five spans, all d.p.g. The materials for two of the spans came from the United States stockpile in Hsuchow. The other details were the same as in the other bridges.
  - d. The original bridge over the Taku River had six or seven spans. Tide water from the sea, however, blocked the flow of the Taku River, and so the Chinese Communists cut another side river or canal west of the Taku River to aid the flow of water. When the bridge was replaced, two spans were added to the bridge, which then had eight or nine spans, all d.p.g. The material for the two new spans over the canal came from the United States' stockpile. Other details were the same as in the other bridges.

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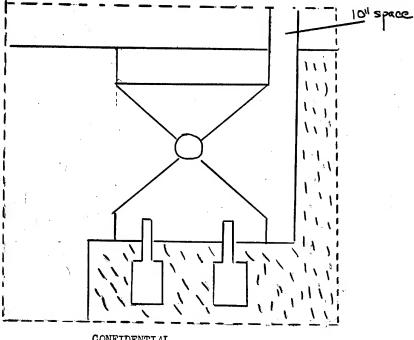
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Sketch of the Construction of Bridge Buttresses



## DETAIL OF DOTTED ENCLOSURE ABOVE



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